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TITLE : FREE CUTTING BRASS EXCELLENT IN DEZINCIFICATION RESISTANCE AND ITS PRODUCING METHOD

ABSTRACT : PROBLEM TO BE SOLVED: To provide brass having a excellent dezincification resistance and machinability, easy to be hot worked, excellent in recycling properties and further advantageous in cost, and to provide its producing method.

SOLUTION: This brass has a composition containing 60 to 63.0% Cu, 2.0 to 3.7% Pb, 0.02 to 0.07% P, 0.20 to 0.50% Sn and 0.10 to 0.20% Fe, and the residual Zn with inevitable impurities. The brass is compassed of structure of an  $\alpha$  phase and a  $\beta$  phase, and the the  $\beta$  phase is divided by the  $\alpha$  phase. The brass is produced by subjecting the ingot of a copper alloy having the above composition to extrusion or extrusion/drawing, and thereafter performing annealing at 350 to 550°C.

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